## 数学与系统科学研究院 计算数学所学术报告

报告人: 徐振礼 教授

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报告题目:

Poisson-Nernst-Planck equations with self-energy effect

邀请人: 季霞 副研究员

报告时间: 2016年1月20日(周三) 下午10:00-11:00

报告地点: 科技综合楼三层 311 报告厅

## **Abstract:**

this talk, we discuss self-consistent field theory to describe the ion-correlation electrolytes by taking the ion-size effect into account. This theory is generalized to describe ion transport the in framework of Poisson-Nernst-Planck equation. We developed asymptotic and numerical strategies to solve the resulted PDEs, and report the study on the effect of correlation and dielectric ion boundary in different applications, and the validation of the model by Monte Carlo particle simulations.

## 欢迎大家参加!